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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/580,327	05/24/2006	Yusuke Mitarai	00862.514141.	5699
5514 7550 03262008 FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA			EXAMINER	
			TORRES, JOSEPH D	
NEW YORK, NY 10112		ART UNIT	PAPER NUMBER	
			2112	•
			MAIL DATE	DELIVERY MODE
			03/26/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/580,327 MITARALET AL. Office Action Summary Examiner Art Unit Joseph D. Torres 2112 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 25 October 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 16-46 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) _____ is/are rejected 7) Claim(s) is/are objected to. 8) Claim(s) 16-46 are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 05/24/2006 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

3) Information Disclosure Statement(s) (PTC/G5/08)
Paper No(s)/Mail Date ______

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 16, 24-31 and 37, drawn to <u>A method for encoding</u> comprising a reconstruction step of reconstructing n data from <u>a single adaptive base</u> using a predetermined conversion and a correction step of correcting <u>said adaptive base</u> based on an error.

Group II, claim(s) 17, drawn to <u>A method for encoding</u> comprising a reconstruction step of reconstructing n data from <u>at least two adaptive bases</u> rising a predetermined conversion and a correction step of correcting the <u>at least two adaptive bases</u> based on an error.

Group III, claim(s) 18, 19 and 23, drawn to <u>A method for encoding</u> comprising a reconstruction step of <u>generating element reconstruction data configured of n data</u>, from one adaptive base using a predetermined conversion and an error calculation step of <u>calculating an error between difference data to be encoded and said element reconstruction data</u>.

Group IV, claim(s) 20, 21 and 32-35, drawn to $\underline{\mathbf{A}}$ method for encoding $f(x_1,x_2,...,x_k)$ comprising a reconstruction step of reconstructing data from $\underline{\mathbf{the}}$ single one-dimensional adaptive base groups $\underline{\mathbf{based}}$ on $\widetilde{f}(x_1,x_2,...,x_k) = \prod_k x_k(x_k)$.

Group V, claim(s) 22, drawn to <u>A method for encoding</u> comprising a reconstruction step of generating <u>element reconstructed data from one pair</u> of one-dimensional adaptive base groups based on $\widetilde{f}(x_1,x_2,...,x_k) = \prod x_k(x_k)$.

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Group VI, claim(s) 36 and 41-46, drawn to A product-sum arithmetic method comprising obtaining the product-sum using the data A and the one-dimensional adaptive base

group based on
$$y = \sum_{i} \left[\iint \cdots \int A(x_1, x_2, \dots, x_k) \bullet \prod_{k} x_{kl}(x_k) dx_1 dx_2 \dots dx_k \right]$$
.

Group VII, claim(s) 38-40, drawn to An encoding apparatus comprising <u>data storing</u> <u>means</u> for storing the data to be encoded into <u>a predetermined memory</u>; <u>base</u> <u>storing means</u> for storing k one-dimensional adaptive base groups.

The inventions listed as Groups I to VII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: they include distinct technical features as highlighted above that require separate search.

A telephone call was made to Ray DiPerna on 3/18/2008 to notify the Attorney to expect an Office Action in the mail and chose to do the restriction in writing due to the compexity.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

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remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph D. Torres whose telephone number is (571) 272-3829. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jacques Louis-Jacques can be reached on (571) 272-6962. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Joseph D. Torres Primary Examiner Art Unit 2112